VORONITSYN, K.I., kand. tekhn. nauk, red.; TIZENGAUZEN, P.E., kand. tekhn. nauk, red.; NADBAKH, M.P., red.; TANTSEV, A.A., starshiy nauchnyy sotr., red.; ABRAMOV, S.A., kand. tekhn. nauk, red.; ABRAMOV, D.A., red.; BOGDANOV, N.I., starshiy nauchnyy sotr., red.; VINOGOROV, G.K., kand. tekhn. nauk, red.; GAVRILOV, I.I., starshiy nauchnyy sotr., red.; GUSARCHUK, D.M., starshiy nauchnyy sotr., red.; D'YAKONOV, A.I., red.; ZAV'YALOV, M.A., kand. tekhn. nauk, red.; ZARETSKIY, M.S., starshiy nauchnyy sotr., red.; KACHELKIN, L.I., starshiy nauchnyy sotr., red.; KISHINSKIY, M.I., kand. tekhn. nauk, red.; KOLTUNOV, B.Ya., starshiy nauchnyy sotr., red.; OSIFOV, A.I., kand. tekhn. nauk, red.; SHINEV, I.S., kand. ekon. nauk, red.

[Materials of the enlarged session of the Scientific Council of the Central Scientific Research Institute for Mechanization and Power Engineering in Lumbering on problems concerning power engineering and the electrification of the lumber industry]

Materialy rasshirennoi sessii Uchenogo soveta TaNIIME po voprosu energetiki i elektrifikatsii lesnoi promyshlennosti. Moskva, 1961. 75 p.

(MIRA 15:4)

(Continued on next card)

VORONITSYN, K.I.—(continued) Card 2.

LKhimki. TSentral'nyy nauchno-issledovatel'skiy institut mokhanizatsii i energetiki lesnoy promyshlennosti. 2. Nachal'nik
TSentral'nogo byuro tekhnicheskoy informatsii lesnoy promyshlennosti (for Nadbakh). 3. Direktor TSentral'nogo nauchnoissledovatel'skogo instituta mekhanizatsii i energetiki lesnoy
promyshlennosti (for Voronitsyn). 4. Uchenyy sovet TSentral'nogo
nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki
lesnoy promyshlennosti (for D'yakonov). 5. Machal'nik otdeleniya
energetiki i sredstv avtomatizatsii TSentral'nogo nauchnoissledovatel'skogo instituta mekhanizatsii i energetiki lesnoy
promyshlennosti (for Zaretskiy).

(Lumbering) (Electric power)

KROTOV, Vladimir Romanovich; TORGONSKIY, Mikhail Nikolayevich; GASTEV, B.G., doktor tekhn.nauk, prof., retsentent; GAYRILOV, I.I., inzh., retsenzent; TOVSTOLUZHSKIY, N.I., red.; PITERMAN, Ye.L., red. izd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Organization of the construction of logging roads] Organizatsiia stroitel'stva lesovoznykh dorog. Moskva, Goslesbumizdat, 1962.
262 p. (MIRA 16:6)

1. Zaveduyushchiy kafedroy sukhoputnogo transporta lesa L'vovskogo lesotekhnicheskogo instituta (for Gastev). 2. Nachal'nik mekhanizatsii stroitel'stva lesozagotovitel'nykh predpriyatiy TSentral'e nogo nauchno-issledovatel'skogo instituta mekhanizatsii i emergetiki lesnoy promyshlennosti (for Gavrilov).

(Forest roads-Design and construction)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514430003-1"

KOMISSAKOVA, Valentina Aleksandrovna, kand. tekhn. nauk; GAVRILOV, I.I., red.

[Methods for the cementation of soils during the laying of top dressing on logging roads; a concise manual] Metody tsementirovaniia gruntov pri ustroistve dorozhnykh odezhd na lesovoznykh dorogakh; kratkoe rukovodstvo.

Hobbya, Lesnaia promyshlennosti, 1964. 31 p.

(MIRA 17:12)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514430003-1"

KICHINSKIY, Mikhail Il'ich, kand. tekhn. nauk, dots.; YEFIFANOV, Boris Yefimovich, kand. tekhn. nauk, dots.; SMIRENNIKOV, Pavel Stepanovich, inzh.; STRASHINSKIY, B.A., inzh., retsenzent; NOVIKOV, G.G., prepodavatel', retsenzent; GAVRILOV, I.I., red.

[Use and repair of logging roads] Ekspluatatsiia i remont lesevoznykh dorog. Izd.2., perer. Moskva, Izd-ve "Lesnaia promyshlennost"," 1964. 40. p. (MIRA 17:7)

1. Alatyrskiy lesotekhnicheskiy tekhnikum (for Novikov).

"APPROVED FOR RELEASE: 08/23/2000 (

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CIA-RDP86-00513R000514430003-1

BORISOV, L.V.; GAVRILOV, I.I.; FRANTOV, G.A.; SHATOV, I.V.; POLYANTSEV, V.A., otv. red.; MARKOV, L.I., red.

[Use of precast reinforced concrete in the construction of automobile roads for hauling lumber; materials for a conference] Primenenie sbornogo zhelezobetona na streitelt-stve avtomobil'nykh dorog dlia vyvozki lesa; materialy k soveshehaniu. Moskva, TSentr. nauchno-issl. in-t mekhanizatsii i energetiki lesnoi promyshl., 1964. 71 p. (MIRA 18:5)

GAVRILOV, I. K. Doc Cand Tech Sci -- (diss) "The Experimental study of strength of pasted bulkheads on vessels." Mos, 1957.

15 pp 20 cm. (Moscow Technical Inst of Pisciculture and Fish Industry im A.I. Mikoyan), 150 copies

(KL, 21-57, 101)

-44-

Large ovarian cyst. Akush. i gin. 35 no.1:114 Ja-F '59.

(MIRA 12:2)

1. Iz Krinichanskoy rayonnoy bol'nitsy (glavnyy vrach v.v. Kn-bryak) Dnepropetrovskoy oblasti.
(GYARIRA-TUMORS)

(GYSTS)

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	INVENTOR: Caurillay T. K. Pillanay D. A. Serviday V. M. Blatay V. C. Shalling	
* •	A. S.; Vul. NULS Ivanov AFE, Belyakov VVSV.; Frolov A. SAS; Khanteis, R. Z. 64/	
	Andriyevskaya (F.C. 205; Zelenskiy, E. S.; Kuperman, A. H.; Dobrovol'skiy, A. K.	
	Dzhereliyevskiy, A. B. 44,55 44,55 44,55	
	ORG: none 44,55	
	5, pri	
	TITLE: Method of fabricating fiberglass shells. Class 32, No. 175624	
	COURCE: Book to be a first of the book of	
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1065, 56-57	
	TOPIC TAGS: shell, cylindrical shell, fiberglass shell, shell fabrication, fiber-	
	glass winding, solid fuel rocket, rocket case	
	Anomalom, military and a second secon	
	ABSTRACT: This Author Certificate introduces a method of fabricating shells from fiberglass wound on a pattern which is then melted out or dissolved. To increase the	
	strength of the shell, the winding is combined with the stretching of fiber by means	
	of a fiber guide which rotates around the pattern. [DV].	
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The open-heart (48-35890)	h process of dee	el production	Moskva, M	etaljurgisest	, 19-1.	11.7 F.
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2:102 SANRHOV, I. T. Monveyerizatsiya chulochnogo proizvodstva. (po materialan MITT i fabrik za 1945-1946 G.G.) Stornik rabot Manch. issled. El-TA trikotanh. Pron-sti za 1946 G.W. - L., 1949, S. 57-74.

SO: Letopis, No. 32, 1949.

VOIOSATOV, Vladimir Yemel'yanovich; GAVRILOV, I.N., red.; SHVARTS,
A.M., tekhn. red.

[They are building a future]Oni stroiat zavtrashnii den'.
Riazan', Riazanskoe knizhnoe izd-vo, 1960. 31 p.

(MIRA 15:12)

(Ryazan--Petroleum refineries)

162.	Calculations for statically indeterminate frames using of given moment curves. Stroi.mekh.i rashch.soor. 4		
(St	ructural frames)		
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DEMKIN, Nikolay Nikolayevich; GAVRILOV, I.N., red.; AZOVKIN, N.G., tekhn.red.

[Proskov'is Kovrova, a Russian peasant woman] Praskov'ia Kovrova - russkaia krest'ianka. Riazan', Riazanskoe knizhnoe izd-vo, 1959. 31 p. (MIRA 14:2) (Kovrova, Praskov'ia Nikolaevna)

MITIN, Vasiliy Ivanovich; FULIN, Yuriy Vasil'yevich; GAVRILOV, I.N., red.;
AZOVKIN, N.G., tekhn. red.

[Ryazan-Solotcha-Klepiki-Tuma; guidebook] Riazan'-Solotcha-Klepiki-Tuma; putevoditel'. Riazan', Riazanskoe knizhnoe izd-vo, 1960. 159 p.

(MIRA 14:7)

VOLOSATOV, Vladimir Yemel'yanovich; GAVRILOV, I.N., red.;
AZOVKIN, N.G., tekhn. red.

[People aim at the peaks] Liudi idut k vysotam. Riazan',
Riazanskoe knizhnoe izd-vo, 1961. 37 p. (MIRA 16:9)

(Ryazan--Chemical industries)

(Ryazan--Construction workers--Education and training)

- 1. GAVRILOV I S.
- 2. USSR 600
- 4. Mustard
- 7. Mixed scwings of peas and white mustard, Dost. sel'khoz., No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SHMELEY, N.A., professor; SHLYAKHMAN, A.L.; GAVRILOV, I.S.; GOLENITSKAYA,
O.N.; MYASNIKOV, A.L., professor.

Extrapulmonary tuberculosis with hepato-lienal syndrome. Terap.arkh. 25
no.2:89-90 Mr-Ap '53. (MIRA 6:5)

(Liver--Tuberculosis) (Spleen--Tuberculosis)

POLTEV, Vasiliy Ivanovich, prof.; PEROV, Aleksandr Andreyevich;
DANILEVSKAYA, O.N., red.; GAVRILOV, I.S., red.; SHERMUSHENKO,
T.A., tekhn.red.

[High honey yields] Vysokie medosbory. Leningrad, Lenizdat, 1961. 60 p. (MIRA 14:6)

GRIGOROVSKIY, Vasiliy Yefimovich, kand. ekonom. nauk; GAVRILOV, I.S., red.; PRESNOVA, V.A., tekhn. red.

[Program for the new expansion of agriculture] Programma novogo Pod"-ema sel'skogo khoziaistva. Leningrad, Lenizdat, 1961. 73 p.

(Agriculture)

TAIROV, Mikhail Alekseyevich; GAVRILOV, I.S., red.; FRESMOVA, V.A., tekhn. red.

[Ways for increasing the yield and reducing the cost of vegetables and potatoes] Puti povysheniia urozhainosti i snizheniia sebestoimosti ovoshchei i kartofelia. Leningrad, Lenizdat, 1961. 95 p. (MIRA 15:10)

 Direktor tresta spetsializirovannykh sovkhozov Leningradskoy oblasti (for Tairov). (Vegetable gardening) (Potatoes)

PETROVA, S.M., kand. sel'khoz. nauk; SOVETKINA, V.Ye., kand. sel'khoz. nauk; GAVRILOV, I.S., red.; PRESERVA, V.A., DERMIN. red.

[Concise manual for the foreman in vegetable-growing] Kratkii spravochnik brigadira-ovoshchevoda. Leningrad, Lenizdat, 1961.

(MIRA 15:3)

(Vegetable gardening)

Control of the Contro

TAIROV, Mikhail Alekseyevich; GAVRILOV, I.S., red.; LEVONEVSKAYA,
L.G., tekhn. red.

[Row crop cultivation is the road to abundance] Propashnaia
sistema - put' k izobiliiu. Leningrad, Leniadat, 1962. 62 p.
(MIRIA 15:5)

1. Nachal'nik Leningradskogo oblastnogo upravleniya sovkhozov
(for Tairov).

(Rotation of crops)

SERGEYEV, Stanislav Vasil'yevich, traktorist; GAVRILOV, I.S., red.; PRESNOVA, V.A., tekhn. red.

[For over-all mechanization]Za kompleksnuiu mekhanizatsiiu. Leningrad, Lenizdat, 1962. 21 p. (MIRA 16:2)

1. Sovkhoz "Pobeda" Lomonosovskogo rayona, delegat XXII s"ezda Kommunisticheskoy partii Sovetskogo Soyuza (for Sergeyev).

(Farm mechanization)

GAVRILOV, I.S.; PARKHOMENKO, V.S., red.; PRESNOVA, V.A., tekhn. red.

[Intensive feed lot and pasture fattening of livestock] Intensivnyi otkorm i nagul skota. Leningrad, Lenizdat, 1963. 69 p. (MIRA 16:7)

(Leningrad Province—Swine—Feeding and feeds)

(Leningrad Province—Beef cattle—Feeding and feeds)

VASIL'KOV, Boris Pavlovich, kand. biol. nauk; CAVRILOV, I.S., red.;
PRESNOVA, V.A., tekhn. red.

[Edible and poisonous mushrooms] S'edownye i iadovitye
griby. Leningrad, Lenizdat, 1963. 44 p. (MIRA 16:9)
(Mushrooms)

DROZDOV, Ivan Petrovich; GAVRILOV, I.S., red.; PRESNOVA, V.A., tekhn. red.

[Growing peas for cattle feeding] Vyrashchivanie gorokha na korm skotu. Leningrad, lenizdat, 1963. 39 p.

(MIRA 16:10)

(Leningrad Province--Feeds) (Peas as feed)

KASPIROV, Anatoliy Ivanovich, doktor sel'khoz. nauk, prof.;
GAVRILOV, I.S., red.; SHERMUSHENKO, T.A., tekhm.red.

[Winter rye and wheat in the Northwest] Ozimye rozh' i
pshenitsa na Severo-Zapade. Leningrad, Lenizdat, 1963.

130 p. (MIRA 17:2)

DECZEOV, I.F.; GAVRILOV, I.S.; EMITRIYEV, N.N., red.

[hech farm should be provided with a cultivated posture]

Kazrdom khoziaistvu kul'turnee pastbishche. Leningrad,

Lenizdat, 1965. 114 p.

(MIRA 18:10)

GAVRILOV, I.S.; ZOTOVA, A.P., red.

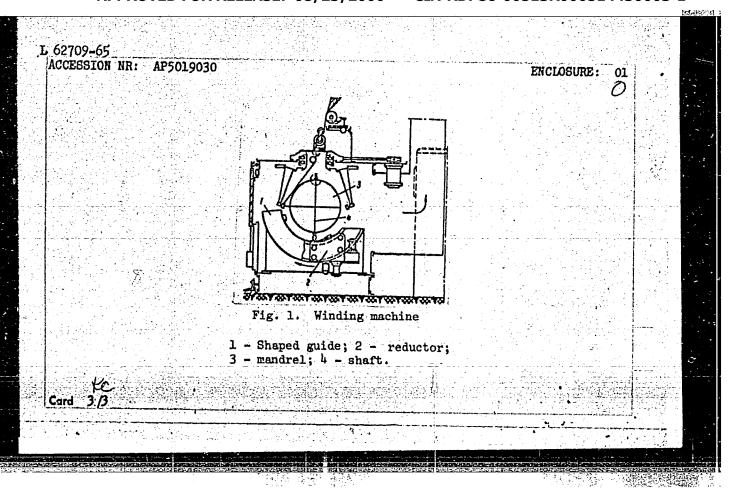
[Home processing of vegetables, fruits, and berries]

Pererabotka ovoshehei, plodov i iagod v domashnikh ualovitakh. Leningrad, lenizdat, 1965. 158 p.

(MINA 18:12

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	AUTHOR: Gavrilov, I. K.; Filippov, D. A.; Strukov, V. M.; Blatov, V. S.; Shalimov,	
	A. S.; Vul, N. I.; Ivanov, A. M.; Belyakov, V. V.; Frolov, R. A.; Khantsis, R. Z.;	
	A. S.; Vul, N. I.; Ivanov, A. M.; Belyakov, V. V.; Frolov, R. A.; Khantsis, R. Z.; Andriyevskaya, G. D.; Zelenskiy, E. S.; Kuperman, A. M.; Dobrovol'skiy, A. K.; Dzhereliyevskiy, K. B.	
	TITLE: Winding machine. Class 32, No. 172009/5	
	SOURCE: Byulleten' Izobreteniy i tovarnykh znakov, no. 12, 1965, 65-66	
	TOPIC TAGS: glass reinforced plastic, plastic filament, fiber glass, filament	
	winding, winding machine, filament wound article	
	ABSTRACT: This Author Certificate introduces a machine for fabrication of glass- reinforced plastic articles by filament winding 5 The machine includes a drive with	
	a reductor and a mandrel mounted on a rotating shaft. To fabricate spherical shapes	
	the machine is equipped with profiled guides transmitting to the mandrel a tilting motion around the vertical axis simultaneously with a rotation around the axis (see	+
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SOBOL', S.I.; NELEN', I.M.; SPIRIDONOVA, V.I.; BERLIN, Z.L;

GORYACHKIN, V.I.; TARAKANOV, B.M.; SHKURSKIY, V.D.; Prinimali

uchastiye: FREYMAN, A.K., inzh.; ERUK, B.M., inzh.;

CHEBOTKEVICH, G.V., inzh.; OSPIN, V.G., inzh.; ALEKSANDROVA, N.N.,

laborant; SALTYKOV, I.B., laborant; TELKOVA, Ye.I., laborantka;

TEPLYAKOV, Yu.M., laborant; GAVRILENKO, A.P., slesar';

KURGUZOV, A.S., elektrik; GAVRILOV, I.T., elektrik

(Nonferrous metals—Metallurgy)
(Leaching)

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GOLYARKIN, F.Ye., kand. sel'skokhoz. nauk; YEMFLINA, N.T., PETUKHOVA, Ye.A.; KHALENEVA, L.D.; GAVRILOV, I.V.; POPOV, B.V.

Pay more attention to the quality of stocked feeds. Veterinariae 41 no.7:4-7 Jl '64. (MIRA 18:11)

1. Moskovskaya veterinarnaya akademiya (for Temelina, Petukhova, Khaleneva). 2. Vneshtatnyy korrespondent zhurnala "Veterinariya" Vladimirskaya oblast! (for Gavrilov). 3. Nachal'nik veterinarnogo otdela Stavropol'skogo krayevoge upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Popov).

Card 1/2

EWT(1) GS/GW L 3422-66 UR/000/65/000/000/0040/0049 ACCESSION NR: AT5023743 S.: Kislyuk, V. S.: Kur'yanova, A. N AUTHOR: Gavrilov, I. V.; Duma, TITIE: Selenocentric coordinates of 160 base points on the lunar surface SOURCE: AN UkrSSR. Figura 1 dvizheniye Luny (Shape and motion of the Moon). Kiev, Naukova dumka, 1965, 40-49 TOPIC TAGS: lunar surface, moon, selenography ABSTRACT: Measurements of the space coordinates of craters contained in the Schrutka-Rechtenstamm catalog (Schrutka-Rechtenstamm, G., Mitteilungen der Universitatssternwarte, Wien, 1958, 9, 17, 251-303) were made at the GAO AN Ukr. SSR. The results, together with the data of Schrutka-Rechtenstamm and R. B. Baldwin (Baldwin, R. B., The Measure of the Moon. University of Chicago Press, Chicago, 1963), served as the basis for the cumulative catalog of space coordin-

ates of 160 base points presented in the article. Initial results of a solution of a concrete selenodesic problem are presented, and their accuracy is dis-

to the northeast of the accepted center of its figure. "In conclusion, the authors thank N. A. Vasilenko and calculators L. N. Zimina and S. A. Zaslavskaya

cussed. Calculations show that the center of mass of the moon is located somewhat

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GAVRILOV, I.V.

Observations of comet 1954 Vorrova at the Main Astronomical Observatory of the Academy of Sciences of the Ukrainian S.S.R. Astron.tsir. no.153:3 0 '54. (MLRA 8:5)

1. Glavnaya astronomicheskaya observatoriya AN USSR (Kiyev,Goloseyevo).
(Comets--1954)

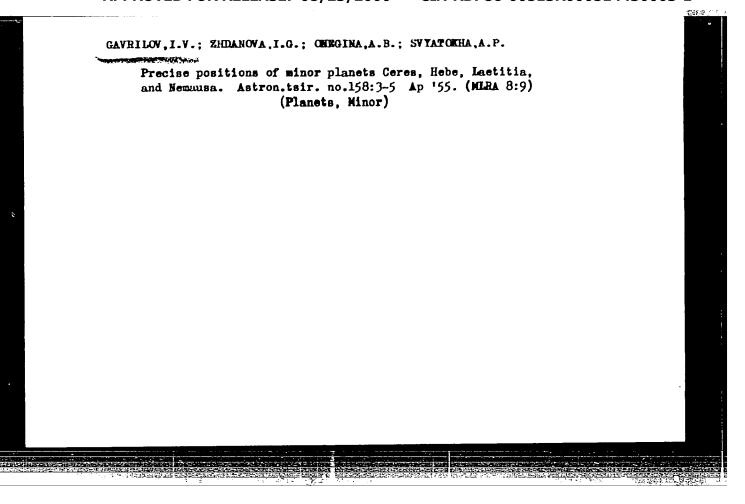
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GAVRILOV, I.V.

Observations of details of the moon's surface at the Main Astronomical Observatory of the Academy of Sciences of the Ukrainian S.S.R. Astron.tsir. no.153:18-19 0 154. (MIRA 8:5)

1. Nauchnyy sotrudnik Glavnoy astronomicheskoy observatorii Akademii nauk USSR (Kiyev) (Moon)



Automatic adapter for photographing the moon and methods for processing lunar photographs. Izv.Glav.astron.obser. 1 no.2:20-24 56.

(MIRA 9:8)

(Astronomical photography) (Moon--Photographs, maps, etc.)

Relation of the moon's radius and the density of negatives in case of photographic observations, Astron. tsirk. no.175:8-10 D '56. (MIRA 10:5) 1. Glavnaya astronomicheskaya observatoriya AN UESH, Goloseyevo. (Moon-Observations) (Astronomical photography)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514430003-1

OATRILOV. I.V.: KOLCHINSKIY, I.G.; ONEGINA, A.B.

Preliminary results of processing photographs of galaxies made for compiling a catalog of faint stars. Izv. Glav. astron. obser. AN (MIRA 11:2) UNSR 2 no.1:73-91 '57.

(Stars--Photographic measurements)

GAVRILOV, I. V. and I. G. KOLCHINSKIY

"Computing Corrections of the Moon's Coordinates from Observations of the Eclipse of June 20, 1954 at the Main Astronomic Observatory of AS UkrSSR"

(Total Eclipse of the Sun, February 25, 1952 and June 30, 1954, Transactions of the Expedition to Observe Solar Eclipses) Moscow, Izd-vo AN SSSR, 1956. 357 p.

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SOV/35-59-10-7855

Translation from: Referativnyy zhurnal. Astronomiya i Geodeziya, 1959, Nr 10, p 24 (USSR)

AUTHORS:

Gavrilov, I.V., Kolchinskiy, I.G.

TITLE:

Determinations of the Corrections of Coordinates of the Moon Through Observation of the Solar Eclipse Which Took Place on June 30, 1954, and which was Observed by the Main Astronomical Observatory of AS UkrSSR

PERIODICAL: V sb.: Polnyye solnechn. zatmeniya 25 Febr. 1952, i 30 June 1954. Moscow, AS USSR, 1958, pp 324-328

ABSTRACT:

Observations of partial phases were carried out with the astrograph of the MAO AS UkrSSR (D = 400 mm, F = 5,500 mm) near Kiyev. The southern boundary of the total phase passed near the Observatory. Observations were carried out when the sky was not quite clear. Altogether, 36 photographs of partial phases were obtained, but it has only been possible to process 18. The measurement of the plates and their processing was carried out according to the method described in the A.A. Mikhaylov handbook "Theory of Eclipses". The coordinates of the Sun and Moon were taken from the Astronomical Annual

Card 1/2

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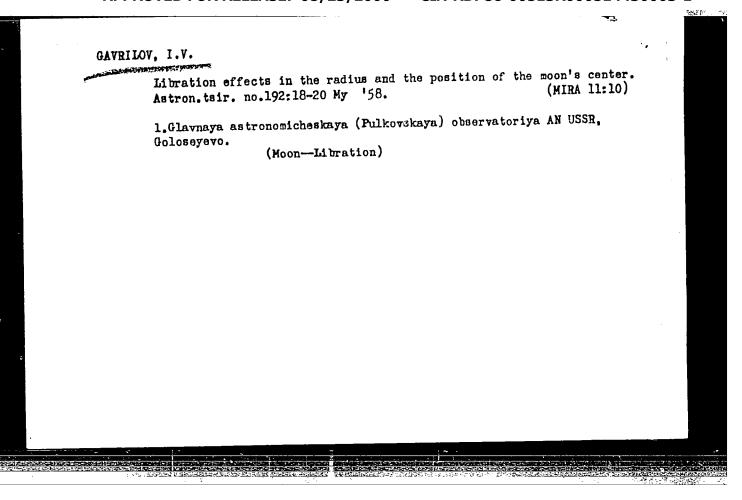
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Determinations of the Corrections of Coordinates of the Moon Through Observation of the Solar Eclipse Which Took Place on June 30, 1954, and which was Observed by the Main Astronomical Observatory of AS UkrSSR

USSR, without any corrections. The following corrections for the coordinates of the Moon were found: $\triangle x = -0$ ".68+0".41; $\triangle x^2 = +0$ ".28+0".12.

S.G.M.

Card 2/2



"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514430003-1

sov/35-59-9-6977

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 9, p 15 (USSR)

AUTHOR:

Gavrilov, I.V.

S

TITLE:

The Exact Positions of the Minor Planet Laetitia (39) Obtained Through

Observations at the MAO AS UkrSSR

PERIODICAL:

Astron. tsirkulyar, 1958, July 3, Nr 193, pp 14 - 15

ABSTRACT:

Sixteen exact positions of the minor planet Laetitia are cited. They were determined from the plates obtained during July, 1954 - April, 1957, by a 400-mm astrograph (F = 5.5 m). The probable error in the position of the planet, on the average, amounts to $\frac{1}{2}0^{m}$.12 in both coordinates.

Main Geophya Observatory (Bulkova)
AS UKN 55R

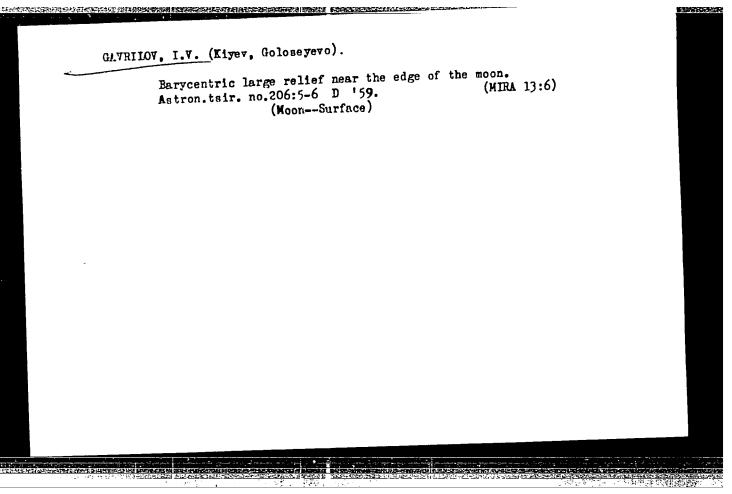
Card 1/1

CAVRILOV, I.V. (Kiyev, Goloseyevo)

Observations of lunar occultations of stars at the Main Astronomical Observatory of the Academy of Sciences of the Ukreinian S.S.R. in Goloseevo. Astron. tsir. no.199:28-29 Ja '59.

(Occultations)

(Occultations)



8484B

s/035/60/000/008/001/007 A001/A001

3.1550 (1057,1129)
Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 8, p. 22, # 7408

AUTHOR:

Gavrilov, I. V.

TITLE:

Baricentric Large-Scale Relief of the Lunar Edge Zone

Astron. tsirkulyar, 1959, dek. 12, No. 206, pp. 5-6 PERIODICAL:

The author gives the name of large-scale relief of the lunar edge zone to the absolute baricentric heights of various parts of the most probable circles from which the small-scale relief is calculated. The determination of the large-scale relief has been carried out on the basis of data obtained during an investigation of the Moon by the photographic method (RZhAstr, 1959, No. 4, 2637). The following formula was used for the calculations of the large-scale

where Δ H is the height of a given point of the most probable circle over the baricentric circle with the radius equal to the Moon ephemeris radius (15'32",58);

Card 1/2

84843

s/035/60/000/008/001/007

Baricentric Large-Scale Relief of the Lunar Edge Zone A001/A001

 Δr + $b\beta_0$ is the correction to the Moon ephemeris radius and the libration effect in it; 6 is the distance between the center of mass and the center of the Moon figure; α is the angle between the line δ and the axis η ; $\|$ is the position angle of an edge point counted from the lunar north pole. The calculation results are presented in a table where Δ H is given in units 0.1 as functions of the arguments $\|$ and $\|$ (libration in latitude).

L. S. Nagormova

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

stage of the luner regional cone," Lenhegrae, 1990, 10 pp (Main Astronomical Observatory, AS USSE) (KL, 30-60, 113)

GAVRILOV, I.V.

MASE I BOOK MAPLOTATION

507/5721

Vsesoyuznaya astrometricheskaya konferentsiya.

Trudy 14-y Astrometricheskoy konferentsii COSA, Riyev, 27-30 maya 1953 5.

(Transactions of the 14th Astrometrical Conference of the USEA, Held in Riyev 27-30 May 1958) Moscow, Ind-vo AM SOSA, 1960. 440 p. Errata slip inserted. 1000 copies printed.

Sponsoring Agency: Akaleniya nauk SSSR. Glavniya natronomicheskaya observatoriya (Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USOR; Ed. of Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zamarayeva.

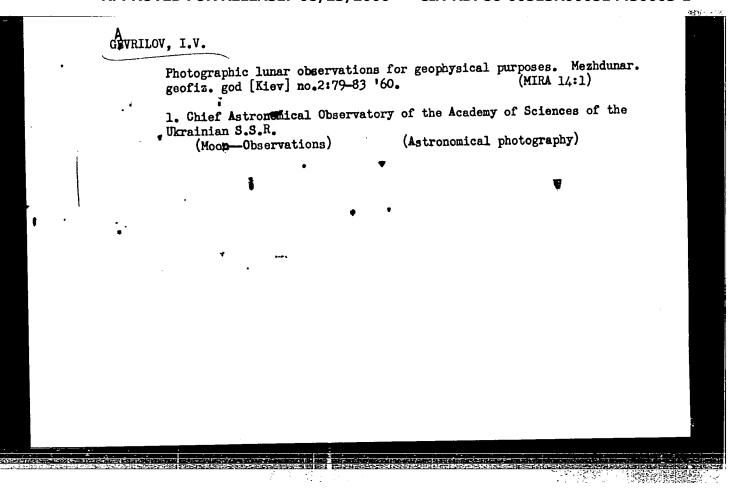
PURPOSE: The book is intended for astronomers and astrophysicists, particularly those interested in astronomers.

COVERAGE: This publication presents the Transactions of the 14th Astronetrical Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports and 55 scientific payers presented at the plenary meeting of the Conference

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and at the special sectional meetings. An appendix contains the agenda, ar adopted by the Conference, the composition of the committees, the agenda, ar adopted by the Conference at the Conference. A brief summary in English is	_	
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1.054.7 3/035/62/000/009/004/060 A001/A101

3,2500

Gavrilov, I. V.

TITLE:

AUTHOR:

The baricentric large-scale relief of the lunar limb zone in Barycentric large relief of the moon's better area.")

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 9, 1962, 14. abstract 9A125 ("Izv. Gl. astron. observ. AN USSR", 1961, v. 3,

no. 2, 68 - 76)

The maps by A. A. Nefed'yev compiled in 1958 are the first attempt to construct the relief maps of the lunar limb zone, containing the heights of points over the baricentric sphere. The remaining existent maps and atlas of the limb zone relief (Hayn and Weimer) have a drawback that their heights of points referred to the most probable circles for particular librations; although it is known that neither coordinates of the centers nor radii of these circles are constant quantities. In order to reduce the heights taken from these maps to baricentric values, corrections $\triangle H_0$ should be added which are equal to the heights of the points of the most probable circles (for different librations and position angles) over the baricentric sphere. On the basis of photographic observations of the Moon at the GAO, AS UkrGSR, the values of ΔH_0 are derived for librations in latitude from -7° to +7° and for Card 1/2

The baricentric large-scale relief of the...

S/035/62/000/009/coh/occanonic large-scale relief of the...

A001/A101

all position angles (from 0 to 360° with intervals of 15°). The extremal values of AHo attain -1".1 and +0".9.

Kh. Potter

Abstracter's note: Complete translation]

GAVRILOV, Igor' Vladimirovich Havrylov, I.]; KILYEROG, N.M.

[Kilieroh, N.M.], red.; DAKENO, Yu.M., tekhn. red.

[Moon is in the objective] V ob'iektyvi - misiats'. Kyiv,
Vyd-vo Åkad. nauk URSR, 1962; 39 p. (MIRA 15:7)

(Moon-Surface)

GAVRILOV, I.V.; MAYOR, S.P.; MIZ', L.N.

Methods for and results of processing photographic observations of the moon. Izv. Glav. astron. obser. AN URSR 4 no.2:46-56 '62.

(MIRA 15:11)

(Astronomical photography)

(Moon—Photographs, maps, etc.)

L 43544-65 EWG(v)/EWT(1) Pe-5/Po-4/Pq-4/Pac-4/Pae-2 OW/OS

ACCESSION NR: AT5009185

UR/0000/63/000/000/0397/0400

AUTHOR: Gavrilov, I.V.; Mayor, S.P.; Miz', L.N.

36 B+1

TITLE: Determination of ephemeris time from lunar photographic observations

SOURCE: Astrometricheskaya konferentsiya SSSR. 15th, Pulkovo, 1960. Trudy. Moscow, Izd-vo AN SSSR, 1963, 397-400

TOPIC TAGS: moon, astrometry, ephemeris time, lunar ephemeris, lunar coordinate, lunar figure, lunar center of mass

ABSTRACT: Experimental observations of the moon by the Markowitz method were the begun in 1957 at the Glavnaya astronomicheskaya observatoriya Akademii nauk Ukrssk (Main Astronomical Observatory of the Academy of Sciences, Ukrainianisski) as 1952 and 1959
L 43544-65

ACCESSION NR: AT5009185

influence of parallax should be taken into account. The coordinates reduced in this way can then be compared with the lunar ephemeris in the Astronomicheskiy yezhegodnik (Astronomical almanae). Table 1 in the text presents the results of the comparison.

Lunar coordinates derived from measurements of the lunar limb represent the coordinates of the center of the figure of the lunar disk; as a result of asymmetry of the figure they do not coincide with the projection of the center of mass of the moon. Before using these coordinates for determining ephemeris time it is therefore necessary to correct them for noncoincidence of the center of the lunar figure and the lunar center of mass. This was done using a previously described method (I.V. Gavrilov, Izv. GAO AN UkrSSR, 3, No. 2, 1961). The corrections which must be applied to the previously determined coordinates of the center of the lunar figure in order to transform them to the coordinates of its center of mass were computed using the formulas:

 $\Delta z = -(\xi \cos C - \eta \sin C),$ $\Delta y = -(\xi \sin C + \eta \cos C).$

Card 2/4

L 43544-65

ACCESSION NR: AT5009185

Here C is the position angle of the lunar axis; E and h are the coordinates of the center of the lunar figure relative to its center of mass, determined using the formulas:

where β_0 is lunar libration in latitude. The results of reduction of the observed coordinates of the center of the lunar figure to its center of mass are also given in Table 1 of the text. After having the observed geocentric coordinates of the moon and its ephemeris, whose argument is ephemeris time, it is easy to use inverse interpolation to determine the moments of ephemeris time corresponding to the determined position of the moon. The corrections of lunar coordinates and the differences between ephemeris the moon. The corrections of lunar coordinates and the differences between ephemeris and Universal Time were found; the mean values are: ΔT (1958.53) = +318.62 and ΔT (1959.44) = +308.85. Orig. art. has: 2 formulas and 2 tables.

Gord 3/4 Submitted 06 apr 63

S/0000/64/000/000/0031/0042

ACCESSION NR: AT4043450

AUTHOR: Gavrilov, I. V., Kur'yanova, A. N.

TITLE: Investigation of the figure of the lunar disk

SOURCE: AN UkrSSR. Glavnaya astronomicheskaya observatoriya. Voprosy* astrometrii (Problems in astrometry). Kiev, Izd-vo Naukova dumka, 1964, 31-42

TOPIC TAGS: moon, lunar disk, lunar figure, lunar libration

ABSTRACT: Depending on the method used, certain investigators have concluded that the limb of the lunar disk at different librations is described well by a circle of a single radius; others believe that the circles at different librations have different radii and their centers do not coincide; still others feel that the limb of the lunar disk cannot be described by a circle and other curves must be found. The authors report an investigation using photographic observations of the moon made with an astrograph (D = 400 mm, F = 5,500 mm) having an automatically moving cassette. Five photographs (Nos. 308, 329, 354, 355 and 356) were used. The eastern and western limbs respectively, were illuminated on photographs 308 and 329. Photographs 354-356 were obtained immediately before a partial lunar eclipse. Radius vectors and position angles of points on the limb of the lunar disk were measured relative to a central mark. In addition, on plates 308 and 329, the rectangular Card 1/5

ACCESSION NR: AT4043450

coordinates of five craters were measured. The measured radius vectors and crater coordinates were corrected for instrument errors and the measurements were freed of the influence of differential refraction. On plates 354, 355 and 356, obtained near the time of the full moon, the measurements were made along the entire limb of the lunar disk (120 points). The measured radius vectors were reduced to find the most probable circle best coinciding with the measured points on the limb. Five series of irregularities of the lunar limb were obtained. The constructed profiles were compared with corresponding profiles from the Weimer Atlas, as shown in Figures 1 and 2 of the Enclosure; the agreement is considered quite good. Curves were also constructed using these data, but they failed to demonstrate convincingly the absence of ellipticity of the limb. The authors therefore computed the parameters of the most probable ellipse best coinciding with the points of the limb. This approach failed to demonstrate reliably that the lunar disk is elliptical. Application of Whittaker's method for smoothing irregularities of the limb revealed that representation of the figure of the disk by the most probable ellipse is formal and completely inadequate. The conclusion is drawn that elevations along the limb should be referred to a circle whose center coincides with the projection of the lunar center of mass. Orig. art. has: 8 formulas, 8 figures and 2 tables.

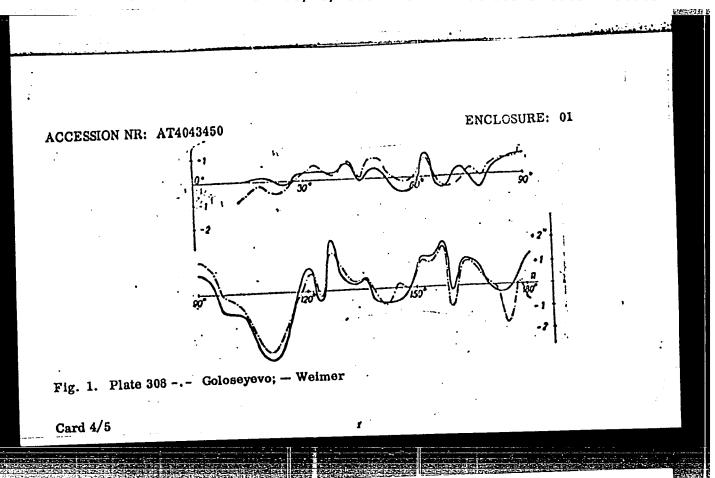
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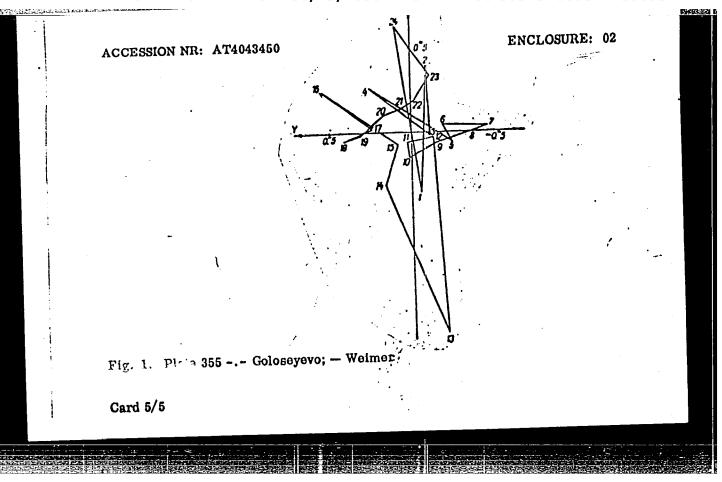
ASSOCIATION: Glavnaya astronomicheskaya observatoriya AN UkrSSR (Main Astronomical Observatory, AN UkrSSR)

SUBMITTED: 11Mar64 ENCL: 02

SUB CODE: AA NO REF SOV: 006 OTHER: 004



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514430003-1"



L 3423-66 EWT(1) GS/GW

ACCESSION NR: AT5023744

UR/0000/65/000/000/0061/0079

AUTHOR: Gayrilov, I. V.

TITLE: Lunar polygonometry technique

SOURCE: AN UkrSSR. Figura 1 dvizheniye Luny (Shape and motion of the Moon).

Kiev, Naukova dumka, 1965, 61-79

TOPIC TAGS: polygonometry, lunar surface, astrometry, selenography

ABSTRACT: In solving selenodesic problems connected with the plotting of a grid of base points from measurements of lunar photographs, use may be made of not only photogrammetric methods, but also techniques of photographic astrometry, which were favored by the author because only a relatively small number of fundamental points determining the position of the coordinate planes are involved. The proposed lunar polygonometry technique involves primarily the use of methods based on relationships of analytic geometry, which makes it easy to treat with modern computing techniques. Convenient schemes for reducing the measurements, determining the space coordinates, and compiling and improving the catalogs of position points are presented. The method is also applicable to photographic

Card 1/2

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SOURCE CODE: UR/0413/66/000/012/0057/0057 AP6021792 INVENTORS: Gavrilov, I. V.; Sviridonko, N. N.; Trubetskov, L. V. ORG: none TITLE: A device for the grid protection of an ion converter. Class 21, No. 182793 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 57 TOPIC TAGS: ionization detector, electron tube grid, electronic circuit ABSTRACT: This Author Certificate presents a device for the grid protection of an ion converter with automatic repetitive triggering. The device contains thyristors and includes sensing elements of the arcing back- and overload-sensing gauges using magnetic elements. The design increases the reliability and response time of the device. Of its three thyristors, one is connected through separating diodes between the converter grids and the negative torminal of the bias voltage source (see Fig. 1). Two other thyristors are connected by anodes to the converter grids through separating diodes and grid resistances. These two thyristors are connected by the cathodes to the zero output of the grid control system. A stabilitron tube is included in the cathode circuit of the first thyristor. Two delay elements (RC circuits) are connected between the anode and cathode of the stabilitron tube. The effective resistances of the RC circuits are regulated and are shunted by diodes. The diodes are connected by the anodes to the cathodes of the stabilitron tube and the thyristors. These diodes 621.316.9:621.314.58 UDC: Card 1/2

ACC NR. AP6021792

Fig. 1. 1 - ion converter; 2 - sensing element; 3 - thyristors; 4 - bias voltage source; 5 - grid resistances; 6 - grid control system; 7 - stabilitron tube; 8 - delay elements; 9 - diodes

are connected by cathodes to the common points of the capacitors and resistances of the RC circuits. The control electrode of the first thyristor is connected through a diode and resistance to the common point of one RC circuit. The control electrodes of the other two thyristors are connected to the common point of the other circuits. Orig. art. has: 1 figure.

SUB CODE: 09, 14/ SUBM DATE: 28Apr65

Carc. 2/2

ACC NR: AR6028775

SOURCE CODE: UR/0269/66/000/006/0072/0072

AUTHOR: Gavrilov, I. V.

TITLE: Improving the system of selenocentric position fixing of lunar surface details

SOURCE: Ref. zh. Astronomiya, Abs. 6.51.551

REF SOURCE: Tr. 16-y Astrometr. konferentsii SSSR, 1963. M.-L., Nauka, 1965, 114-118

TOPIC TAGS: lunar photography, lunar topography, position fixing

ABSTRACT: The only catalogue in existance using the horizontal and vertical coordinates of 150 points of the lunar surface compiled by G. Schrutka-Rechtenstamm according to the observations made by Frantz has a serious deficiency: there is no guarantee that the center of coordinates in this catalogue coincides with the center of the lunar mass because an unjustifiable assumption was made that the lunar disk coincides with the projection of the center of its mass. A method is proposed for bringing together the center of the system of coordinates and the center of the lunar mass utilizing the fact that the center of the Moon's mass is also the center of revolution. According to the photographs of the Moon corresponding to different librations the position of points of the lunar surface are described by the vectors $r_{ij} = (x_{ij}, y_{ij}, z_{ij})$

where i is the number of the point, and j is the number of the coordinate system which corresponds to a particular libration. By orthagonal transformation the points may be reduced to the initial catalogue coordinate system which corresponds to the

Card 1/2

UDC: 523.36+523.39

ACC NR: AR6028775

libration $1 = 0^{\circ}$, $b = 0^{\circ}$. From the relationship

$$r_{ij} = Br_{i0} + q_{i}$$

where r_{i0} are radii-vectors of the points in the initial catalogue; B, system coordinate rotation matrix; and q_j the vector which transposes the center of the j-th system into the center of the system of coordinates of the initial catalogue. The vectors q_j are determined first and then the vectors $s_{ij} = r_{ij} + q_j$. The vectors s_{ij} have a common starting point which coincides with the center of the initial catalogue system and whose apexes lie on the spherical surfaces whose centers coincide with the center of the Moon's mass. This may be expressed by the relationship

$$|s_{ij} - \Delta r_0| = \text{const.}$$

When at least four measured coordinates from different librations are available the vector Δr_0 may be determined by the least squares method. This vector relates the coordinates of any catalogue to the coordinates of the initial catalogue where the centers of the lunar mass and the coordinates coincide. The following relationship is used: $\rho i = r_{i0} - \Delta r_0$. [Translation of abstract] N. B.

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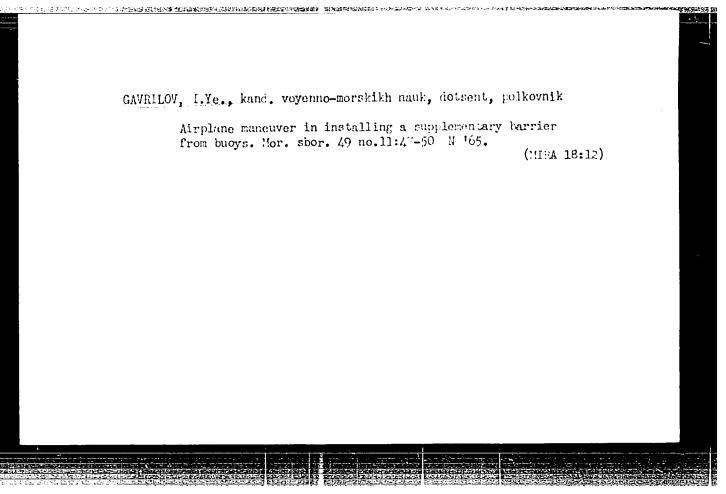
Card 2/2

GAVRILOV, I. YE.

"Irrigation Technique for Grain Crops Under the Conditions of the Southern Trans-Volga Area." Sub 14 Feb 47, Moscow Hydraulic Engineering and Soil Improvement Inst imeni V. R. Villyams

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55



ACC NR: AP6031293

SOURCE CODE: UR/0375/66/000/009/0047/0050

AUTHOR: Gavrilov, I. Ye. (Colonel)

ORG: none

TITLE: Submarine search effectiveness

SOURCE: Morskoy sbornik, no. 9, 1966, 47-50

TOPIC TAGS: antisubmarine warfare, antisubmarine aircraft, aerial reconnaissance

ABSTRACT: One of the missions of antisubmarine aviation is to search for submarines in a given area. To accomplish this the aircraft must start at some point and examine the area according to a set plan. Assuming that a pilot is assigned to search a specific area, he can properly fulfill the mission only if he starts precisely at the initial search position. If due to an error in position the aircraft is some distance from this precise point, the search will be carried out in an area other than the proper one. The greater the position error, the greater the area which will remain uninspected, thus reducing the effectiveness of the search. Taking possible initial position errors into consideration, a method for determining the area actually inspected is presented, which was earlier described by Ye. S. Ventsel' (Introduction to operations research, Izd-vo Sovetskoye radio, 1964). Orig. art. has: 3 figures and 5 formulas.

SUB CODE: 15, 01/ SUBM DATE: none/ ORIG REF: 001

Card 1/1

L 10907-67 TCH

ACC NR. AP6006524 (N) SOURCE CODE: UR/0375/65/000/011/0047/0050

- Marida

AUTHOR: Gavrilov, I. Ye. (Colonel, Candidate of Military, Sciences, Docent)

ORG: None

TITLE: Aircraft maneuvers when setting a supplementary buoy barrier

SOURCE: Morskoy sbornik, no. 11, 1965, 47-50

TOPIC TAGS: anticubmarine aircraft, anticubmarine warfare, sonobuoy

ABSTRACT: The process described in the article deals with ASW aircraft setting a supplementary buoy barrier in ASW exercises. The method introduced can be used to calculate the effect of wind on various types of aircraft in various maneuvering patterns, without the use of onboard automated systems. An aircraft intending to set a supplementary buoy barrier parallel to the barrier already in place, must overfly the initial barrier, turn 180° and set itself on a reciprocal course, ready to drop its buoys at a given spot. It is evident that certain factors will act on the aircraft and result in its not ending up in the position intended by the pilot. Speed, bank angle, and wind are the most important factors and must be reckoned with. Mathematical formulas are used to compute the effect of these factors and to compensate for them. Despite the large approximations used in the calculations, they deduce possible errors, specifically in aircraft time of departure from the point of initial setting of the buoys. Orig. art. has: 8 formulas and 4 figures.

SUB CODE: 15/SUBN DATE: None

Card 1/1 9/2

GAMRILOV, K. A.

"Influence of Forest Cultures on the Soil." Thesis for degree of Cand. Geological Mineralogical Sci. Sub 23 Jun 49, Moscow Order of Lenin State U imeni M. V. Lomonomov

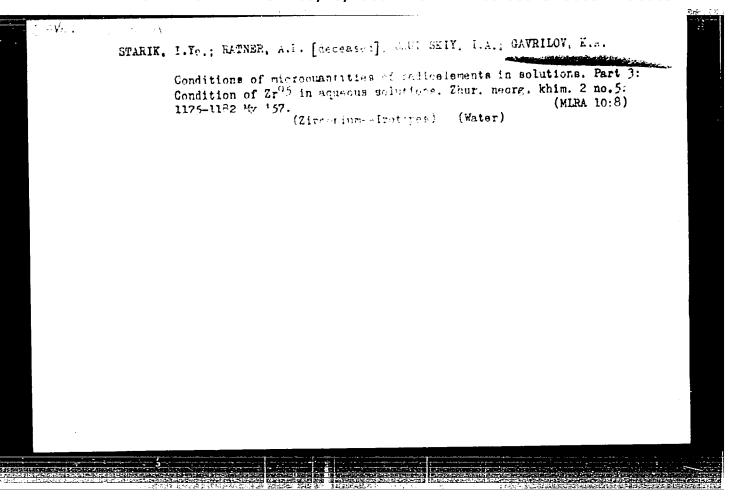
Summary 82, 18 Dec 52, <u>Dissertations Fresented for Degrees in Science and Engineering in Moscow in 1949</u>. Prom <u>Vechernyaya Moskyn</u>. Jan-Dec 1949

CAVRILOV, K.A.; PEREL', T.S.

Earthworms and other invertebrates in forest soils of Vologda
Province [with summary in English]. Pochevedenie no.8:133-140
Ag '58.

1.Institut lesa AN SSSR i Moskovskiy gosudarstvennyy pedagogocheskiy
institut im. V.I. Lenina.

(Forest soils) (Soil fauna)



86741

\$/120/60/000/006/016/045 E032/E314

26.1640

Ponomarev, A.A., Khlebnikov, G.I. and

Gavrilov, K.A.

TITLE:

A Method for Controlling the Electrodeposition of

α-active Isotopes

Pribory i tekhnika eksperimenta, 1960, No. 6, PERIODICAL: pp. 58 - 60

TEXT: A simple method of continuous control of the electrodeposition of α -active isotopes, which involves the use of standard scintillation counters and standard electronics, is described. The apparatus is shown schematically in Fig. 1. The cathode 2, on which the active substance is deposited. was in the form of a nickel foil, 1.5 to 5 μ thick. The area

of the target was 5 \times 10 mm 2 . The material is deposited from the electrolyte 1 and the $\alpha\text{-particles}$ transmitted by the cathode produced scintillations in the ZnS phosphor $\ ^4$. The scintillations reached the photomultiplier through the light pipe 5 and the output of the photomultiplier was

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recorded by a "standard block IC-10 000 (PS-10 000)". The thickness of the cathode was chosen so that it would transmit a-particles and to ensure that the scintillations would give rise to photomultiplier pulses much greater than the dark current. The electrolytic device, which is attached to the apparatus, was of the type described by Yakovlev et al (Ref. 13). The above apparatus was used to investigate the effect of:

- a) the_concentration of the electrolyte (0.1 1 mol /litre);
- b) the current density at the cathode (10 300 mA/cm 2) and
- c) concentration of the deposited substance (20 100 $\mu g/cm^2$) on the amount and quality of the deposit in the case of the electrodeposition of Pu²³⁹ from a water solution of H₂^{CO}₂

and NH₄CO₂H. The results obtained are summarised in Figs. 2 and 3. Fig. 2 shows the dependence of the amount of plutonium Card 2/4

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produced (%) as a function of the concentration of the electrolyte (mol/litre). The points marked 1 refer to the present method and the points marked 2 refer to the direct α -particle counting after electrolysis. Fig. 4 shows the dependence of the amount of plutonium deposited on the cathode current density and Curve 3 shows the counting rate 2 as a function of time for C = 0.25 molecular and $I_k = 150$ mA/cm . It was

found that the best plutonium deposits were obtained with a concentration of 0.25 mol/litre and a current density at the

cathode of 100-200 mA/cm². Under these conditions, an 80-90% yield of plutonium was achieved. With small modifications the apparatus can also be used to investigate the deposition of α -active specimens by vacuum and electrostatic methods. Acknowledgments are expressed to G.N. Olerov for valuable advice and auggestions and to V.A. Druin for assistance in the present work.

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A Method for Controlling the Electrodeposition of a-active Isotopes
There are 4 figures and 13 references: 7 Seviet, 6 English.
SUBMITTED: September 29, 1959

FLEROV, G.N.; POLIKANOV, S.M.; KARAMYAN, A.S. [deceased]; PASYUK, A.S.; PARFANOVICH, D.M.; TARANTIN, N.I.; KARNAUKHOV, V.A.; DRUIN, V.A.; VOLKOV, V.V.; SEMCHINOVA, A.M.; OGANESYAK, YU.TS.; KHAIIZEV, V.I.; KHLEBNIKOV, G.I.; MYASOYEDOV, B.F.; GAVRILOV, K.A.

Experiments to produce element No. 102. Zhur. eksp. i teor. fiz. 38 no.1:82-94 Jan '60. (MIRA 14:9)

1. Sotrudniki Obredinennogo instituta yadernykh issledovaniy (for Polikanov, Oganesyan, Gavrilov). 2. Sotrudnik Instituta geokhimii i analiticheskoy khimii AN SSSR (for Myasoyedov).

(Transuranium elements)

23878 S/186/61/003/001/011/020 A051/A129

21.3100

AUTHORS: Gavrilov, K.A., Myascyedov, B.F., Khlebnikov, G.I.

TITLE: The production of targets from plutonium for the irradiation on a syclotron with multi-charge less

PERIODICAL: Radiokhimiya, v 3, nc 1, 1961, 62-67

TEXT: The article deals with a description of the production of targets made from specially purified samples of plutonium, which are used for producing the 102nd element. The authors studied the possibility of producing pure plutonium by eliminating ultra-small quantities of Fe, Tl, Hg, Bi, Pb, Pt. They were able to obtain P_0239 , P_0240 , and P_0242 isotopes, containing P_0200 and P_0200 to 100 Y of Pu and other interfering elements below the sensitivity line of the activation method. Finally, they prepared targets, which were used for the production of the $102^{0.2}$ element from purified samples of plutonium by the electrolytic method and the method of evaporation with

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The production of targets from plutonium ...

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tetraethyleneglycol. Admixtures, such as Tl. Hg, Bi. Pb, Pt, are thought to be rather dangerous in the target material, even in small quantities, since during the interaction of multi-charge ions with elements they form isotopes emitting departicles with an energy close to the energy of the departicles of the 102nd element and a great number of Comparticles of other energy plates. The thickness of the plutonium layer on the targets was about $200 \, \gamma/\text{cm}_2^2$. The quantity of the stabiliting reterior levels creating a rather high background impeding the viewing of the photo-200 γ/cm^2 . The quantity of the stabilizing material was not to exceed about 200 γ/cm^2 calculated on the copper equivalent. The administration of the plutonium isotopes had to be carried out on very thin linings to avoid a decrease in the energy of the bombarding particles, since the formation cross-section of the trans-uranium elements depends to a large extent on the energy of these particles. The work was based on the fact that plutonium (IV) is well extracted from a 5 n nitrate solution with diethyl ether, whereas the main interfering elements under these conditions barely pass into the ether phase (Ref 3). The second purification stage of plutonium was based on the formation of Pt, Bi, Hg, Tl3+ stable anion complexes and their sorption by the anionite within a wide range of HCl concentrations (Ref 4). The ex-

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The production of targets from plutonium ...

periments showed that the NO $_3$ ions even at low concentrations (\sim 0.01 M) extramely binder (\sim 100 times) the purification of plutonium from lead and bis. muth on the icn-exchanging column. It is assumed that when heating tetra--walent plutonium in () n HCl its partial reduction to the tri-valent state takes place. The work carried out resulted in the production of plutenian samples as given above. The targets were produced by electrolysis and simple application of active solutions, using organic additives. It was case of electrolysis the method of plutonium formation from formate of was chesen (Ref 5,6) en 🐇 motibedine apply the stable layers. The gulf $(t, v) = (t, t, v) \cdot (t - v)$ i.e., an interfering element ∹เสพยท∜วู the electrolytic process, in at two a conterent accept ondities; Clare lysis time, with respect mineral acids and alvell moved to the amount of a most to the mos on the sathode in short of the month of the sathode in short of the month of the sathode in short of the sathode in short of the sathode in short of the sathode in s

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The production of targets from platenium ...

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Mo, Pd and W. atc. lith passes and rim rassive ingeressing passed unsultable due to their dissolution turing the clastrolyt, open east. The only suctable electrodes found were taken of the lime of graphites. A ready was made of the depositing process of meatings beginning on the communition of the electron Lyte, carrent density, line and type of lining (Al. 4, Mi. Mb). The authors assume that under the solastal senditions of electrify as platonium (IV) and (VI) are those deposited mainly on the pathode. Fig 2 is a graph of the relationship of the plutonium yield on the target to the amount of potassium bromate. The graphs (Figs 2-4) show that the change of the pH (from 3 to 7) has no significant effect on the electrolytic depositing process of plutonium. The graphite anode was also found to be successful in addition to the rhodium one. The authors point out that the advantage of the evaporation method with tetraethyleneglycol for producing targets lies in the fact that it eliminates the entering of impurities into the target, which can occur during electrolysis due to anode dissolution. It also gives good layers on small areas. There are 2 tables, 4 figures and 6 references: 4 Soviet-blcc, 2 non-Sovietbloc.

Card 4/5

GAVRILOV K.A.; MYASOYEDOV, B.F.; KHLEBNIKOV, G.I.

Preparation of targets from plutonium for bombardment with multiply charged ions in a cyclotron. Radiokhimiia 3 no.1:62-67

'61. (Plutonium)

(Plutonium)

TAULE, M.; GVUZD¹, Ye.; GAVRILOY, K.A.; MALY, Ya.; HRANDSHTETR, I.;

VAN TUI-SEN; SARAHTSEVA, V.R., tekhn. red.

[Extraction of fermium and mendelevium in the tributyl phosphatenitric acid system] Ekstraktsiia fermiia i mendeleviia v sisteme

TBF - HNO₃. Dubna, Ob"edinennyi in-t iadernykh issledovanii,

1962. 6 p. (MIRA 15:7)

(Fermium) (Mendelevium)

TAUBE, M.; GVUZD', Ye. (Gwozdz, E.); GAYRILOV, K.A.; MALY, Ya. (Maly, J.); BRANDSHTETR, I.; VAN TUN-SEN ['Wang T'ung-Seng]

Extraction of mendelevium and fermium in the TBP--HNO $_3$ system. Nukleonika 7 no.7/8:479-482 '62.

1. Obⁿyedinennyy institut yadernykh issledovaniyi, Dubna, Laboratoriya yadernykh reaktsiy.

FLEROV, G.N.; POLIKANOV, S.M.; GAVRILOV, K.A.; MIKHEYEV, V.L.; PERELYGIN, V.P.; PLEVE, A.A.

Formation of spontaneously fissioning isomers in reactions involving A-particles and deuterons. Zhur. eksp. i teor. fiz. 45 no.5:1396-1398 N '63. (MIRA 17:1)

1. Ob"yedinennyy institut yadernykh issledovaniy.

Valdett.

ACCESSION NR: AP4020055

8/0186/64/006/001/0026/0035

AUTHOR: Brandshtetr, I.; Hang, T'ung-heeng; Gavrilov, K. A.; Gvuzd', Ye.; Haly*, Ya.; Taube, H.

The state of

TITLE: Extraction properties of fermium and mendelevium (TEF-HRO sub 3, TEF-HC1)

SOURCE: Radiokhimiya, v. 6, no. 1, 1964, 26-35

TOPIC TAGS: extraction property, fermium, mendelevium, TEF-HNO sub 3, TEF-HCl, partition chromatography

ABSTRACT: The extraction properties of fermium and mendelevium are studied for the first time by the partition chromatography method in the system TBF-HNO3 and TBF-HCl. The separation of heavy actinides will be better during chromatographic extraction from solutions of hydrochloric acid than from solutions of nitric acid. In the extraction column, the heavy actinides behave like analogs of the following lanthanides. In HNO3: Fm is the analog of europium, Hd is between Eu and Gd; in HCl: Fm is the analog of Dy, Hd is between Ho and Dy. It follows that during extraction from solutions of HNO3, the actinides are shifted into 5

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	L 1/2571-65 ELT(m)/EMP(b)/EMP(t) Peb DIAAP/IJP(c) JD/JG/JAJ ACCESSION NR: AP5012920 PO/OC46/64/009/010/0785/0794	
	AUTHOR: Mikul'ski, Ya.; Gavrilov, K. A.; Knoblokh, V. TITLE: Partition chromatography of rare earths and trans-uranium elements in the tetra-butyl-hypophosphate/tetra-butyl-pyrophosphate/nitric acid system	
	SOURCE: Nukleonika, v. 9, no. 10, 1964, 785-794 TOPIC TAGS: chromatographic analysis, rare earth metal, fissionable metal, chemical separation	*
	ABSTRACT: The article deals with the extraction characteristics of rare earths (Pm, Eu, Tb, Tm) and trans-uranium elements (Am, Cm, Cf, Cients were measured by the partition chromatography method and and 1.05 for the havier trans-uranium elements ! The overest described. both the rare earth elements ! The overest described.	
	and 1.05 for the havier trans-uranium elements, 1.25 for the lighter described, both the set-up and the measuring procedure. The results are plotted as relative activity versus volume of eluent. The sepamula and the the obtained values are discussed. Cord-1/2	
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ACCESSION NR: AP5012920

"The authors wish to thank Prof. G. N. Flerov, Corresponding member of the AN SSSR, for his constant attention and discussion of the results; I. Stary, V. Yermakov for processing the results; Z. Knoblokhova, A. Klimovskaya and V. Bochkov for their assistance in carrying out the experiments; the group who operated the cyclotron for conducting the experiments. The authors also thank T. Modro for his kind allocation of tetra-butyl-hypophosphate; P. V. Perelygina for assistance in mastering the partition chromatography method."

Orig. art. has 12 graphs.

ASSOCIATION: Laboratoriya Khimii i Radiokhimii Institut Yadernoy Fiziki, Krakuv (Laboratory of Chemistry and Radiochemistry, Institute of Nuclear Research); Laboratoriya Yadernykh Reaktsiy, Ob'yedinennyy Institut Yadernykh Issledovaniy, Dubna (Nuclear Reaction Laboratory, Joint Institute of Nuclear Research); Institut Yadernykh Issledovaniy ChAN, Rzhezh (Institute of Nuclear Research ChAN)

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OTHER: 009

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GAVRILOV, K.A.

L 13219-65 EAT(m)/EAP(t)/EAP(b) DIAAP/IJP(c)/AFWL JO/DM

ACCESSION NR: AP4047420

s/0089/64/017/004/0310/0312 ³

AUTHORS: Flerov, G. N.; Oganesyan, Yu. Ts.; Lobanov, Yu. V.; Kuznetsov, V. I.; Druin, V. A.; Perely*gin, V. P.; Gavrilov, K. A.; Tret'yakova, S. P.; Plotko, V. M.

TITLE: Synthesis and physical identification of the isotope of the $\frac{104\text{th element}}{2}$

SOURCE: Atomnaya energiya, v. 17. no. 4, 1964, 310-312

TOPIC TAGS: transuranium element, half life, spontaneous fission

ABSTRACT: In view of the fact that earlier estimates yielded a wide range of values for the half-life of the isotope $104\frac{260}{9}$, whereas experiments have shown that the element $102\frac{256}{100}$ experiences spontaneous fission with a half-life of 1500 seconds, the authors developed a procedure for indicating the spontaneous fission, for use in searches

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